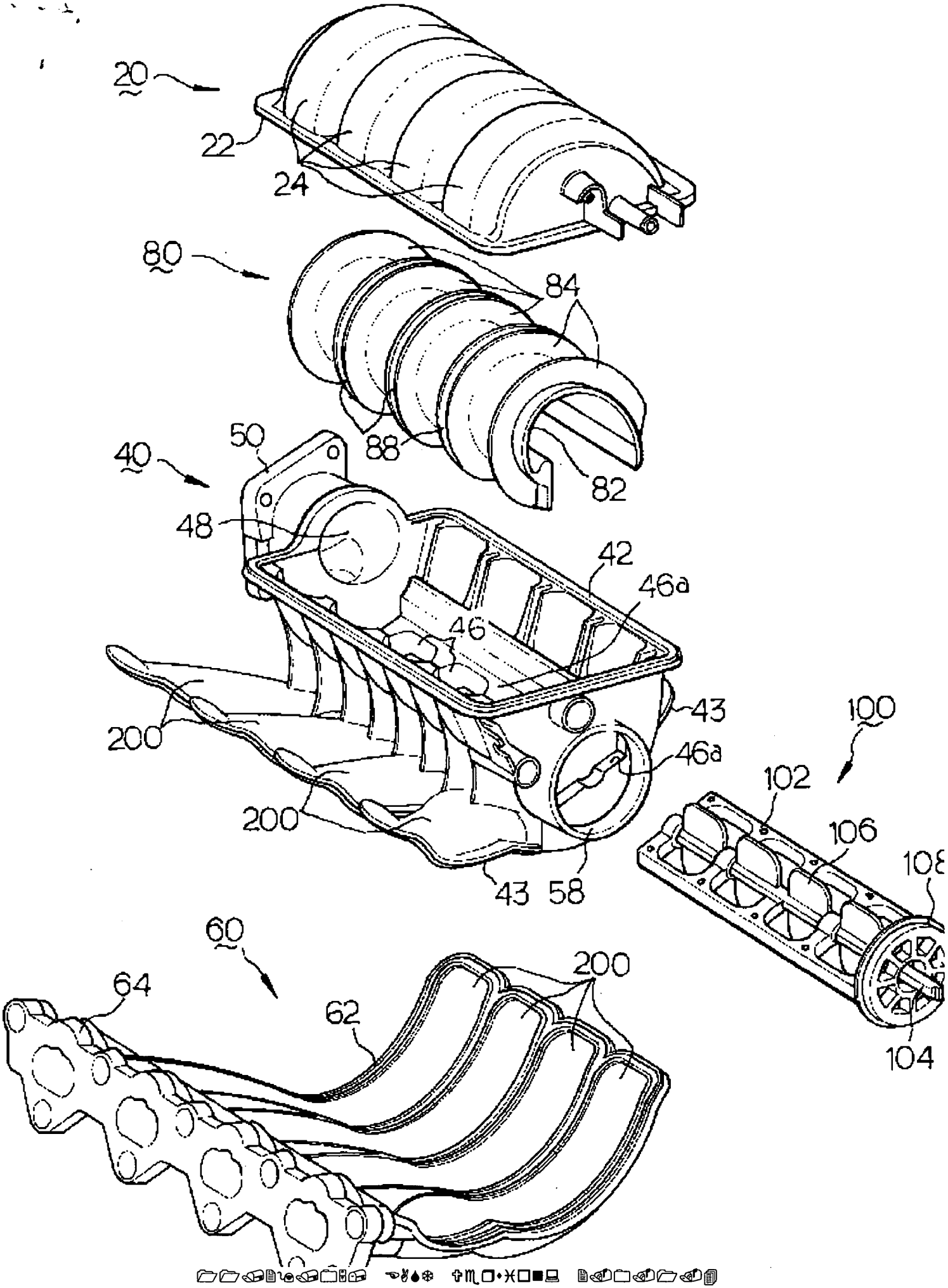
20
22
24
80
84
88
82
40
50
48
42
46a
46
43
200
100
102
106
108
104
60
64
62
200

DERWENT-ACC-NO: 2001-577295

DERWENT-WEEK: 200269

TITLE: Plastic intake manifold for variable intake system

INVENTOR: KIM, Y T; MYUNG, J S

PATENT-ASSIGNEE: DAEWOO MOTOR CO LTD[DAEWN]

PRIORITY-DATA: 1999KR-0043885 (October 11, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 332954 B	April 20, 2002	N/A	000	F02B 027/02
KR 2001036757 A	May 7, 2001	N/A	001	F02B 027/02

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
KR 332954B	N/A	1999KR-0043885	October 11, 1999
KR 332954B	Previous Publ.	KR2001036757	N/A
KR2001036757A	N/A	1999KR-0043885	October 11, 1999

INT-CL (IPC): F02B027/02

ABSTRACTED-PUB-NO: KR2001036757A

BASIC-ABSTRACT:

NOVELTY - A plastic intake manifold for a variable intake system is provided to divide the whole structure of the intake manifold to mold the whole intake manifold with plastics, thereby reducing the whole weight of the engine and providing simplified assembling structure.

DETAILED DESCRIPTION - A plastic intake manifold for a variable intake system includes an upper housing(20) formed of plastics with division surface(22) horizontally cut in the vicinity of a center of a communication channel(48) communicated with a throttle body to form an upper half of a plenum chamber, a top part of the division surface being formed as outer walls(24) of circulation channels per cylinder, a center housing(40) formed of plastics with an upper division surface(42) corresponding to the division surface of the upper housing to form a lower half of the plenum chamber and having lower division surfaces(43) for dividing runners per cylinder by half, and a direct channel(46) per cylinder for communicating the plenum chamber to beginning

parts of the runners, a lower housing(60) formed of plastics with division
surfaces(62) corresponding to the lower division surfaces of the center housing
to form lower parts of the runners, a plenum insert(80) formed of plastics, and
having inner walls(82) as bottom surfaces of the circulation channels,
partition walls(84) as side surfaces of the circulation channels to be disposed
in the upper and lower housings for forming a substantial plenum chamber
communicating the communication channel to an inner space of the partition
walls, a lower part of the plenum chamber being communicated with the direct
channels of the center housing, and a valve element(100) rotatably mounted with
valve plates(106) corresponding to the direct channels by a rotation shaft(104)
and disposed between a lower opened part of the plenum chamber and the top
surfaces of the direct channels of the center housing for opening and closing
the direct chambers.

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: PLASTIC INTAKE MANIFOLD VARIABLE INTAKE SYSTEM

DERWENT-CLASS: Q52